

ABSTRACT

A composite intended for medical use, in particular surgical or therapeutic use, characterized in that it comprises a mixture of

- a thermoplastic component plasticizable within the temperature range $-10^{\circ}\dots+100^{\circ}\text{C}$, which is substantially made up of hydroxy acids and structural units derived from hydroxy acid derivatives, and the molar mass of which is within the range 30,000 - 1,000,000 g/mol, and which degrades in the body typically within a period ranging from a few days to several years, and which in its solid state is a mechanically strong plastic or rubbery material, and
- a bioactive component, which is a bioactive glass or a bioactive xerogel,

such that the plasticized thermoplastic component remains moldable for a certain period even after the temperature of the composite has been lowered to a temperature which is considerably lower than the setting temperature of said thermoplastic component.